

Work Order ID 146652

Thursday, May 19, 2016 3:01:16 PM

146652

Page 1

Item ID: D117-837-111

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 6/15/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: MLD Date: MAY 25 2016 Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr								
DSI9724	A								
IIN-D117-837	B	JUL 21 2016	DAS 8 9-89					DAS 21 9-29	16-07-21

100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D117-837-111 CHG003								

DAS
27
9-89
JUL 22 2016

110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									

(1) PC JUL 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

Work Order ID 146652

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Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 6/15/2016 Req'd Qty: 1.00 ***1***

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Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

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Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120 QC4- 100% Inspect kits for completeness 0.00

120

QC

Memo

0.03

Quality Control

DAS
27
9-89

JUL 22-2016

130 Packaging 0.00

130

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D117-837-111

Location: EG 034DAS
27
9-89

JUL 22 2016

140 QC21- Final Inspection - Work Order Release 0.00

140

QC

Memo

0.10

Quality Control

DAS
21
9-89

JUL 25 2016

Jm 10/07/22

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY								
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

Picklist Print

Thursday, May 19, 2016 3:01:15 PM

Page 1

Work Order ID: 146652

146652

Parent Item: D117-837-111

D117-837-111

Parent Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016

Required Date: 6/15/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 13.03.28 NEW ISSUE DD VERF:JLM IPP
REV:B 13.06.21 IIN-D117-837 REV.A DD VERF:JFS IPP REV:C
14.07.25 ecn 14-571/ chg002 DD VERF:JLM IPP REV:D 15.05.27 add
DSI9727 as per ecn15-571 DD verf:jlmm

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN4-13A		Purchased	No				Each	313.0000					
---------	--	-----------	----	--	--	--	------	----------	--	--	--	--	--

AN4-13A

Bolt

**

4 ~~M134852~~ PC

Location	Loc Qty	Loc Code
----------	---------	----------

FG	20	
----	----	--

122808	20	
--------	----	--

GA	60	
----	----	--

m134167	36	
---------	----	--

m134634	24	
---------	----	--

O003	200	
------	-----	--

m134754	200	
---------	-----	--

ST344	33	
-------	----	--

m134634	33	
---------	----	--

D5253-1		Manufactured	No				Each	36.0000					
---------	--	--------------	----	--	--	--	------	---------	--	--	--	--	--

D5253-1

Shim

**

4 PC

Location	Loc Qty	Loc Code
----------	---------	----------

ST161	36	
-------	----	--

144608	36	
--------	----	--

D4893-1		Manufactured	No				Each	0.0000					
---------	--	--------------	----	--	--	--	------	--------	--	--	--	--	--

D4893-1

Hard Point Adapter, LH

D4893-2		Manufactured	No				Each	0.0000					
---------	--	--------------	----	--	--	--	------	--------	--	--	--	--	--

D4893-2

Hard Point Adapter, RH

**

2 ~~B14465~~ PC

2 ~~B14468~~ PC JUL 21 2016

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By 	
								Lead hand / Supervisor Approval Verification 	
								QC / QA Coordinator Approval 	

Root Cause			FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____ _____ _____						
Misidentified ☐	Past Due ☐							

Picklist Print

Thursday, May 19, 2016 3:01:15 PM

Page 2

Work Order ID: 146652

146652

Parent Item: D117-837-111

D117-837-111

Parent Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016

Required Date: 6/15/2016

Start Qty: 1.00

Required Qty: 1.00

D4894-1 Manufactured No Each 1.0000

D4894-1

Fwd Beam

DAS
27
9-89

Location

ST447

122818

Loc Qty

1

1

Loc Code

**

1 ~~M~~ 144931 P 

D4894-3 Manufactured No Each 2.0000

D4894-3

Aft Beam

DAS
27
9-89

Location

ST447

121292

Loc Qty

2

2

Loc Code

**

1 ~~M~~ 144932 P 

D4895-045 Manufactured No Each 1.0000

D4895-045

Fwd Outboard Beam Assembly

DAS
27
9-89

Location

ST478

136931

Loc Qty

1

1

Loc Code

**

1 ~~B~~ 149933 P 

D4895-047 Manufactured No Each 0.0000

D4895-047

Aft Outboard Beam Assembly

DAS
27
9-89

**

1 ~~B~~ 144934 P 

JUL 21 2016

Thursday, May 19, 2016 3:01:16 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Skid-tube ☐</td> <td style="width: 15%;">Cross tube ☐</td> <td style="width: 15%;">Water Jet ☐</td> <td style="width: 15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
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Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
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Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
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Past Expiry Date ☐	Manufacturing Process ☐	OTHER :																							
Misidentified ☐	Past Due ☐																								

Picklist Print

Thursday, May 19, 2016 3:01:16 PM

Page 3

Work Order ID: 146652

146652

Parent Item: D117-837-111

D117-837-111

Parent Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016

Required Date: 6/15/2016

Start Qty: 1.00

Required Qty: 1.00

AN4-17A Purchased No

Each 249.0000

4

AN4-17A

Bolt

**

134943X1

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

200

M134508

50

M134573

50

M134634

50

M134754

50

ST343

49

M133998

49

AN5-23A Purchased No

Each 7.0000

12

AN5-23A

Bolt

**

134943X5PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST337

7

M134634

7

MS20002C6 Purchased No

Each 128.0000

12

MS20002C6

WASHER

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST314

128

m132823

28

m134754

100

21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Thursday, May 19, 2016 3:01:16 PM

Page 4

Work Order ID: 146652

146652

Parent Item: D117-837-111

D117-837-111

Parent Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016

Required Date: 6/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

2,035.000

8

MS21042L 4

Locknut

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

187

m133769

187

OVER007

1500

m134676

500

m134762

1000

ST303

251

m134606

251

ST305

97

m130922

97

MS21042L5

Purchased

No

Each

555.0000

12

MS21042L 5

Nut

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

101

m127813

101

OVER007

100

m134509

100

ST303

354

m134055

7

m134567

47

m134676

100

m134762

200

JUL 21 2016

Thursday, May 19, 2016 3:01:16 PM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Misidentified ☐	Past Due ☐																																																																

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Thursday, May 19, 2016 3:01:16 PM

Page 5

Work Order ID: 146652

146652

Parent Item: D117-837-111

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Parent Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016

Required Date: 6/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L6

Purchased

No

Each

191.0000

12

MS21042L6

Nut

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST303

191

m133938

6

m134055

5

m134509

30

m134567

50

m134676

100

Each

23.0000

12

MS21250-06022

Purchased

No

MS21250-06022

BOLT

x4 1/2 m134 955

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST294

23

M129688

8

M134762

15

Each

4,144.000

16

NAS1149D0416J

Purchased

No

NAS1149D0416J

WASHER

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

222

m131511

222

ST260a

1984

m131511

1984

ST264

1938

m131511

1938

16

JUL 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : _____							

Picklist Print

Thursday, May 19, 2016 3:01:16 PM

Page 6

Work Order ID: 146652

146652

Parent Item: D117-837-111

D117-837-111

Parent Item Name: BK117 Basket Mounting Provisions

Start Date: 6/3/2016

Required Date: 6/15/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0516J

Purchased

No

Each

39.0000

24

NAS1149D0516.J

Washer

**

X15 M134943

DAS
27
9-89

Location

Loc Qty

Loc Code

ST264

39

M129706

39

9

NAS1149D0616J

Purchased

No

Each

134.0000

12

NAS1149D0616.J

WASHER

**

P<

DAS
27
9-89

Location

Loc Qty

Loc Code

ST264

134

122815

134

12

JUL 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D117-837 REV. B AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D117-837 REV. 1
REF. TCCA STC: SH13-22
REF. FAA STC: SR03353NY

1.0 Purpose

Some customers have experienced problems with the alignment of the quick release pins after installing the D117-837-011 Basket kit after CHG 003. The purpose of this DSI is to provide instructions and parts to correct this mis-alignment. The DSI 9724-011 Shim Kit provides tapered shims that may be installed between the D5106-041 Bracket Assemblies and the bottom rib of the D4784-041 Basket Assembly.

2.0 Installing D5253-1 Shims

- 2.1 Unfasten D5106-041 Bracket Assy from D4784-041 Basket Assy.
- 2.2 Replace AN4-12A bolts with AN4-13A bolts and install D5253-1 shims as shown in Figure 1, using 2x NAS1149D0416J washers and 1 x MS21042L4 nut per shim. Pay attention to the orientation of the shim in relation with the basket center. Position the 4x D5253-1 Shims with the thicker side away from the center of the basket.
- 2.3 Fasten D5106-041 Bracket Assy to D4784-041 Basket Assy.
- 2.4 Continue with step 3.1.3 of IIN-D117-837 Rev. B.

3.0 Parts List

For D117-837-011 Heli-Utility-Baskets @ CHG 003 and later, the DSI 9724-011 Shim Kit is available from Dart. The parts in the DSI 9724-011 Shim Kit have been added to D117-837-011 Basket Kits @ CHG 006 and later.

Qty -011	Part Number	Description
X	DSI 9724-011	SHIM KIT
4	D5253-1	SHIM
4	AN4-13A	BOLT
4	MS21042L4	NUT
8	NAS1149D0416J	WASHER

4.0 Weight & Balance

This DSI has a negligible effect on Weight & Balance

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

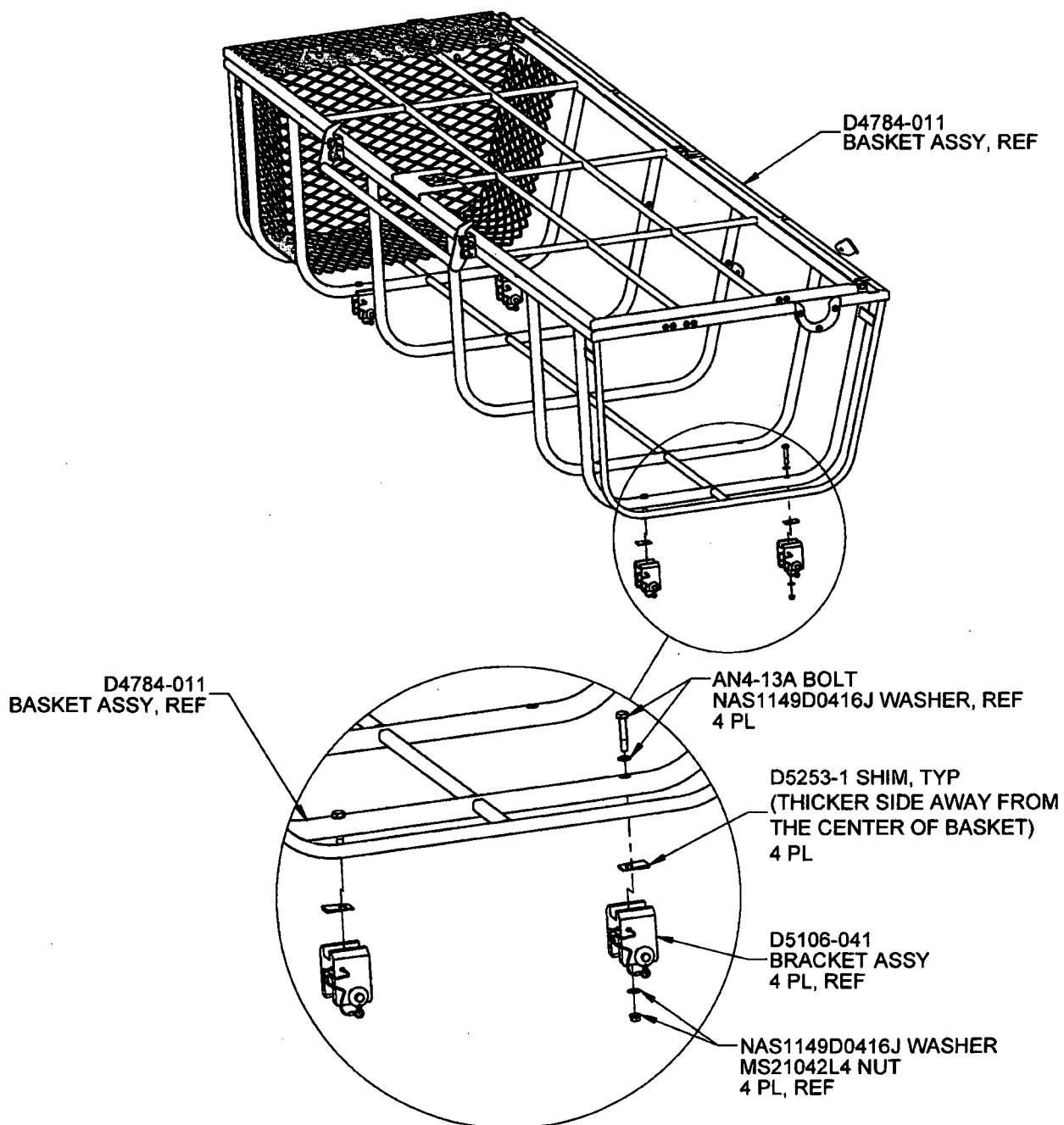
APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 15.05.11
CERT. NO.: SH13-22
ISSUE NO.: 1

A	NEW ISSUE	RF	15.05.11
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9724	SHEET 1 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SHIM KIT	NTS
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DETAIL A

FIGURE 1 - D5253-1 SHIM INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 15.05.11
CERT. NO.: SH13-22
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9724	SHEET 2 OF 2
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DE APPR.	<i>[Signature]</i>	SHIM KIT	NTS
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5.0 PARTS LIST

Qty -011	Qty -013	Qty -111	Part Number	Description
X			D117-837-011	HELI-UTILITY-BASKET, LH/RH
	X		D117-837-013	PROP ARM KIT
1		X	D117-837-111	BASKET PROVISION MOUNTING KIT
	1*		D2332-041	PROP ASSEMBLY (OPTIONAL)
	4*		D3953-9	WASHER
1			D4784-011	BASKET ASSEMBLY, HEAVY DUTY, LH/RH
1			D4794-043	STRUT ASSY
		2	D4893-1	HARDPOINT ADAPTER, LH
		2	D4893-2	HARDPOINT ADAPTER, RH
		1	D4894-1	FWD BEAM
		1	D4894-3	AFT BEAM
		1	D4895-045	FWD OUTBOARD BEAM ASSY
		1	D4895-047	AFT OUTBOARD BEAM ASSY
1			D4911-1	BRACKET
2			D4911-3	BRACKET
4			D5106-041	BRACKET ASSY
2			AN3-11A	BOLT
4			AN4-12A	BOLT
		4	AN4-17A	BOLT
		12	AN5-23A	BOLT
		12	MS20002C6	WASHER
2			MS21042-3	NUT
4		4	MS21042L4	NUT
		12	MS21042L5	NUT
		12	MS21042L6	NUT
4			MS21069L3	ANCHOR NUT
		12	MS21250-06022	BOLT
4			MS27039-1-08	SCREW
8			NAS1097AD3-4	RIVET
	3*		NAS1149C0463R	WASHER (or AN960C416)
8		8	NAS1149D0416J	WASHER (or AN960JD416L)
		24	NAS1149D0516J	WASHER (or AN960JD516L)
		12	NAS1149D0616J	WASHER (or AN960JD616L)
6			NAS1149F0332P	WASHER (or AN960-10L)

* D2332-041 PROP ASSEMBLY & HARDWARE (OPTIONAL) TO REPLACE D3953-9 GAS SPRING

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Revision: B

Date: 14.06.24

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D117-837 REV. B AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D117-837 REV. 1
REF. TCCA STC: SH13-22
REF. FAA STC: SR03353NY

1.0 Purpose

Some customers have experienced problems with the alignment of the quick release pins after installing the D117-837-011 Basket kit after CHG 003. The purpose of this DSI is to provide instructions and parts to correct this mis-alignment. The DSI 9724-011 Shim Kit provides tapered shims that may be installed between the D5106-041 Bracket Assemblies and the bottom rib of the D4784-041 Basket Assembly.

2.0 Installing D5253-1 Shims

- 2.1 Unfasten D5106-041 Bracket Assy from D4784-041 Basket Assy.
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- 2.3 Fasten D5106-041 Bracket Assy to D4784-041 Basket Assy.
- 2.4 Continue with step 3.1.3 of IIN-D117-837 Rev. B.

3.0 Parts List

For D117-837-011 Heli-Utility-Baskets @ CHG 003 and later, the DSI 9724-011 Shim Kit is available from Dart. The parts in the DSI 9724-011 Shim Kit have been added to D117-837-011 Basket Kits @ CHG 006 and later.

Qty -011	Part Number	Description
X	DSI 9724-011	SHIM KIT
4	D5253-1	SHIM
4	AN4-13A	BOLT
4	MS21042L4	NUT
8	NAS1149D0416J	WASHER

4.0 Weight & Balance

This DSI has a negligible effect on Weight & Balance

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE: 15.05.11
CERT. NO.: SH13-22
ISSUE NO.: 1

A	NEW ISSUE	RF	15.05.11
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9724	SHEET 1 OF 2
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